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We envision future Sensor Networks (SNs) that will be composed of a h
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4 [Real-time shading](#)
[Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool,](#)
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In order to provide an increasing number of functionalities and benefit f tailored services from the network, distributed applications are led to in networking technologies. As these applications ...

Keywords: WSN, framework, middleware, overlay network


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 Rami Beidas, Jianwen Zhu
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Catriel Beerl, Anat Eyal, Tova Milo, Alon Pilberg

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Many enterprises nowadays use business processes, based on the BPEL. These are complex, often distributed, processes. Monitoring the execution of interesting patterns is critical for enforcing business ...

9 [Computing curricula 2001](#)

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 Pierre-Évariste Dagand, Dejan Kostić, Viktor Kuncak

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Concurrency and distribution pose algorithmic and implementation challenges for distributed systems, making the field an excellent testbed for evaluating verification paradigms. Several specialized domain-specific ...


Keywords: arrows, distributed systems, functional programming, modularity

11 [Network processing of documents, for documents, by documents](#)

Ichiro Satoh

November 2005 **Middleware '05**: Proceedings of the ACM/IFIP/USENIX 2005 Middleware

Publisher: Springer-Verlag New York, Inc.


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This paper presents a content-dependent and configurable framework for processing documents. Like existing compound document frameworks, it enables a dynamically and nestedly composed of software components corresponding to ...

12 [The multivalent browser: a platform for new ideas](#)

 Thomas A. Phelps, Robert Wilensky

November 2001 **DocEng '01**: Proceedings of the 2001 ACM Symposium on Document Engineering

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The Multivalent Browser is built on a architecture that separates function format. Almost all functionality is made available via relatively small modules that programmers can write to extend the core ...


Keywords: annotation, architecture, digital, document, multivalent browser

13 [Webrb: evaluating a visual domain-specific language for building relational web applications](#)

 Avraham Leff, James T. Rayfield

October 2007 **OOPSLA '07: Proceedings of the 22nd annual ACM SIGPLAN programming systems and applications**

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Many web-applications can be characterized as "relational". In this paper we present *WebRB*, a visual domain-specific language for building such applications. We compare it to the conventional "imperative-embedding" ...

Keywords: data-flow languages, relational web-applications, visual programming, relational blocks, web-application development, webrb



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Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf](#) (8.26 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 300, Downloads (12 Months): 3093, Citation

15 [A generic component model for building systems software](#)

 Geoff Coulson, Gordon Blair, Paul Grace, Francois Taiani, Ackbar Joolia, Ke Thirunavukkarasu Sivaharan

February 2008 **Transactions on Computer Systems (TOCS)** , Volume 26 Issue 1

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Component-based software structuring principles are now commonplace. However, componentization is far less established when it comes to building low-level systems. There have been pioneering efforts in applying componentization ...

Keywords: Component-based software, computer systems implementation

16 [Communications of the ACM: Volume 52 Issue 2](#) February 2009 [Communications of the ACM](#)**Publisher:** ACMFull text available:  [Digital Edition](#) ,  Pdf (7.09 MB) Additional Information: [full citation](#)**Bibliometrics:** Downloads (6 Weeks): 456, Downloads (12 Months): 3125, Citations: 1**17** [Using XForms to simplify Web programming](#) [Richard Cardone, Danny Soroker, Alpana Tiwari](#)May 2005 **WWW '05: Proceedings of the 14th international conference on****Publisher:** ACMFull text available:  Pdf (1.03 MB) Additional Information: [full citation](#), [abstract](#),**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 142, Citations: 1

The difficulty of developing and deploying commercial web applications technologies they use increases and as the interactions between these technologies become more complex. This paper describes a way to avoid this increasing complexity.

Keywords: J2EE, MVC, Web application, XForms, XMLBeans, eclipse, version control**18** [The particle computer system](#)[Christian Decker, Albert Krohn, Michael Beigl, Tobias Zimmer](#)April 2005 **IPSN '05: Proceedings of the 4th international symposium on networks****Publisher:** IEEE PressFull text available:  Pdf (369.90 KB) Additional Information: [full citation](#), [abstract](#),**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 23, Citations: 1

This paper presents a sensor-based, networked embedded system, reference system. It is comprised of tiny wireless sensor nodes, capable of communicating as connectivity with backend, PC-based systems, ...


Keywords: AwareCon, ConCom, file system, middleware-free architecture, network**19** [Retrospective on Aurora](#)[Hari Balakrishnan, Magdalena Balazinska, Don Carney, Uğur Çetintemel, M. Eddi Galvez, Jon Salz, Michael Stonebraker, Nesime Tatbul, Richard Tibbe](#)December 2004 **The VLDB Journal — The International Journal on Very Large Databases** Issue 4**Publisher:** Springer-Verlag New York, Inc.Full text available:  Pdf (349.43 KB) Additional Information: [full citation](#), [abstract](#),**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 43, Citations: 1

This experience paper summarizes the key lessons we learned throughout the development of the Aurora stream-processing engine. For the past 2 years, we have been building applications using Aurora. We first describe in detail the Aurora architecture.

Keywords: Data stream management, Distributed stream processing, Stream processing

of-service, Stream-processing engines

20 [Generation of visual editors as eclipse plug-ins](#)

 Karsten Ehrig, Claudia Ermel, Stefan Hänsgen, Gabriele Taentzer

November 2005 **ASE '05: Proceedings of the 20th IEEE/ACM international C
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Keywords: eclipse, generation, graph transformation, visual editor plu

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